

TOP SECRET**PRIORITY**P 312118Z
FM NPIC31 Jul 70 21 51 25X1
25X1AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN
FICENR

OUT: 70320

ZEM
TOP SECRET TTTT CITE NPIC 895925X1
25X1
25X1

ALSO FOR 544 ARTW.

SUBJECT: CAMERA INFORMATION FOR MISSION 1111-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS,
DUAL STELLAR CAMERAS AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS

FOCAL LENGTHS (MM)	PAN CAMERAS	PORT HORIZONS	STBD HORIZONS	DISTRIBUTION
FWD	609.5416	55.156	55.030	OFFICE
AFT	609.5619	54.981	55.015	PI

FILTERS

PAN FWD	PRIMARY	W-25
PAN FWD	ALTERNATE	W-25
PAN AFT	PRIMARY	W-21
PAN AFT	ALTERNATE	W-21
FWD STBD	HORIZON	W-25
FWD PORT	HOZIRON	W-25
AFT STBD	HORIZON	W-25
AFT PORT	HOZIRON	W-25

APERTURE

STBD HORIZON	F/8.0
PORT HORIZON	F/6.3

FILM

FWD	3414
AFT	3414

DYNAMIC RESOLUTION

FWD HIGH CONTRAST	285
FWD LOW CONTRAST	185
AFT HIGH CONTRAST	253
AFT HIGH CONTRAST	149

UNIT NUMBER	FWD	325	AFT	324
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B. DISIC UNIT NO. 2R

	PORT STELLAR	STBD STELLAR	INDEX
FOCAL LENGTHS (MM)	76.126	75.971	76.322
FILTER (WRATTEN)	NONE	NONE	W-12
EXPOSURE (SEC)	1.5	1.5	1/500
FILM	3401	3401	3400

3. LENS DISTORTION (PIN CUSHION) (MM)

A. MAIN UNITS

ANGLE OF AXIS (DEG)	3	2	1	0	359	358	357
FWD	.002	.001	0	0	0	.002	.003

ADVANCE CY
SANITIZED
WITH TEXT

25X1

TOP SECRET

-2-

AFT .001 0 0 0 0 .002 .005
 B. HORIZON CAMERA DISTORTION

	FWD PORT	FWD STBD	AFT PORT	AFT STBD
RADIAL 10 DEG	.0	.01	.005	.01
20 DEG	.03	.03	.03	.05
TANGENTIAL	.012	.012	.025	.018

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 30 DEG 34 MIN 14.69 SEC

B. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS

	15 DEG	05 MIN	02.38 SEC
FWD PORT	15 DEG	11 MIN	33.09 SEC
FWD STBD	15 DEG	01 MIN	40.21 SEC
AFT PORT	15 DEG	10 MIN	09.69 SEC
AFT STBD			

C. ANGLES STELLAR AND INDEX CAMERA

	100 DEG	01 MIN	46.9182 SEC
STBD STELLAR AND INDEX	.99 DEG	56 MIN	22.0301 SEC
PORT STELLAR AND INDEX			

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D,3A THRU 4A,5	2	11
6A THRU 10A		
16A THRU 20A,25D	1	8
31A THRU 36A,41D,45D		
81A THRU 83A,85D THRU 88D		
47A,52A,52D	2	7
53D THRU 55D,63A,63D,	2	8
64A THRU 68A, 69M,70D THRU 77D,79A		
94A,94D,95A,97A	1	9

FOR ALL PASSES PRIMARY PERIOD 3548 SECONDS, SECONDARY PERIOD 2622
 SECONDARY RAMP FACTOR 0.017450

7. PROGRAM TIME DATA

PASS	DAY	CAMERA (ZULU TIME)	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	23	02 53	51			1819	31
3A	23	05 37	58			888	237
4A1	23	07 07	06			847	228
4A2	23	07 12	01			1143	185
5M	23	08 42	40			1190	392
6A	23	10 11	32			1178	82
7A	23	11 45	15			1396	103
10A	23	16 04	52			748	64
16A	24	01 07	15			848	64
17A1	24	02 37	21			846	109
17A2	24	02 41	33			1099	94
18A1	24	04 08	19			897	123
18A2	24	04 11	40			1098	132
19A	24	05 40	28			1021	205
20A1	24	07 07	51			858	101
20A2	24	07 13	35			1202	141
25D	24	15 01	00			2217	152
31A	24	23 39	24			893	59
32A	25	01 08	45			848	51
33A	25	02 42	04			1042	158
34A	25	04 10	08			922	48
35A	25	05 39	54			918	133

36A1	25	07	09	57	-3-	
36A2	25	07	11	48	916	53
41D	25	15	02	26	1028	276
45D	25	20	58	52	2252	147
47A	25	23	39	40	2000	64
52A	26	07	14	11	877	40
52D	26	07	28	47	1144	141
53D	26	07	01	01	2020	68
54D	26	10	23	59	2152	42
55D	26	11	58	59	1731	80
63A	26	23	35	55	2031	39
63D	26	23	59	38	660	181
64A	27	01	08	23	2083	38
65A	27	02	41	02	810	64
66A1	27	04	09	11	971	58
66A2	27	04	12	00	862	93
67A	27	05	40	46	1031	68
68A	27	07	14	18	961	117
69M	27	08	46	19	1175	130
69D	27	08	54	41	1299	222
70D1	27	10	19	58	1801	60
70D2	27	10	27	27	1519	150
71D	27	11	55	39	1969	130
72D1	27	13	26	24	1866	34
72D2	27	13	30	05	1915	52
77D	27	20	57	54	2135	111
79A	27	23	36	37	2027	46
81A1	28	02	36	40	759	103
81A2	28	02	40	38	746	47
82A1	28	04	07	36	984	102
82A2	28	04	11	12	793	68
83A	28	05	41	40	1010	92
85D1	28	08	52	03	1029	129
85D2	28	08	55	10	1635	70
86D	28	10	26	16	1821	64
88D1	28	13	27	36	1880	60
88D2	28	13	31	23	1944	46
94A	28	22	03	42	2171	105
94D	28	22	26	49	468	43
95A	28	23	37	26	1855	39
97A1	29	02	38	30	686	69
97A2	29	02	41	34	737	90
97A3	29	02	44	58	922	81
					1125	70

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
10	18093.968	57645.8283	----
15	46646.265	86198.1187	.007
26	104616.103	57767.9423	.014
31	133349.600	101.3318	.108
41	185663.967	52415.7844	.010
47	219539.807	86291.6145	.010
57	272016.625	52368.4165	.016
63	305956.759	86308.5397	.011
73	358355.279	52307.0421	.018
79	392335.517	86287.2683	.012
89	444823.405	52375.1372	.019
95	478867.445	19.1643	.013
104	525922.016	47073.7168	.019

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

T O P S E C R E T

END OF MESSAGE

GROUP ONE